










## CPU Cooler *High performance thermal solutions*

Choosing the wrong CPU cooler for a system can lead to serious overheating, resulting in system shutdowns and potential damage to CPUs. For industrial applications, the following CPU coolers fit the needs of various operating environments, where different levels of cooling are required.

Desktop Core™ CPU Cooler				
   				
LGA1155/LGA1156				
Model Name	CF-1156A-RS-R11	CF-1156B-RS	CF-1156C-RS 45W	CF-1156D-RS 65W
Description	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible	High performance LGA1155/LGA1156 cooler kit	Low power LGA1155/LGA1156 cooler kit for Intel® CPU, 45W, 1U chassis compatible, CCL, RoHS	
CPU Solution	Intel® Core™ i5/i3	Intel® Xeon®/Core™ i7/i5/i3	Intel® Core™ i5/i3	Intel® Core™ i7/i5/i3
Socket Solution	LGA1155/LGA1156	LGA1155/LGA1156	LGA1155/LGA1156	LGA1155/LGA1156
Dimensions (mm)	89 x 92.6 x 27.4	91 x 91 x 82	90 x 90 x 33	90 x 90 x 33
Material	Cu	Aluminum Alloy	Al	Cu+Al
Bearing Type	Two-ball	Two-ball	Two-ball	Two-ball
Capability (Watt)	73W	95W	45W	65W
Fan Speed (RPM)	5500	5000	3000	3000
Noise Level (dBA)	51	45	33.4	33.4
Life Expectancy (hrs)	50000	70000	50000	50000
Weight	422g	248g	192g	227g

Mobile Core™ i7 CPU Cooler			Desktop CPU Cooler		
 			  		
PGA989			LGA775 Cooler		
Model Name	CF-989A-RS-R12	CF-989B-RS	CF-775A-RS	CF-775B-RS-R11	CF-520-RS-R11
Description	High performance Socket-G (PGA989) smart fan CPU cooler, RoHS	High performance Socket-G (PGA989) CPU cooler, Aluminum, RoHS	High performance Two copper pipes LGA 775 CPU cooler, RoHS	High performance 1U LGA 775 CPU cooler, w/ 7010 fan, copper, RoHS	High performance LGA 775 CPU cooler, RoHS
CPU Solution	Intel® Core™ i7/i5/i3	Intel® Core™ i7/i5/i3	Intel® Core™2 Quad	Intel® Core™2 Duo	Intel® Core™2 Duo
Socket solution	PGA989	PGA989	LGA 775	LGA 775	LGA 775
Dimensions (mm)	60 x 60 x 27.5	60 x 60 x 27.6	92 x 92 x 73	80.5 x 81 x 28.2	115 x 115 x 67
Material	Cu	Al	Cu-Al	Cu	Aluminum Alloy
Bearing Type	Two-ball	Two-ball	Rifle	Two-ball	Two-ball
Capability (Watt)	55W	50W	130W	90W	115W
Fan Speed (RPM)	4800	4800	3600	4250	4500
Noise Level (dBA)	40	37	36.6~39.6	40	47.5~51.5
Life Expectancy (hrs)	50000	70000	40000	50000	70000
Weight	255g	140g	492g	600g	635g

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# CPU Cooler *High performance thermal solutions*




## Desktop CPU Cooler

	115W	86W	65W	86W
				
Pentium® 4 Cooler				
Model Name	CF-478A-RS	CF-478B-RS	CF-478D-RS-R11	CF-514-RS
Description	High Performance Copper Socket 478 CPU Cooler, RoHS	High Performance Heat Pipes Socket 478 1U CPU Cooler, RoHS	Socket 478 1U CPU Cooler	High Performance Skiving Intel® Pentium® 4 CPU Cooler, RoHS
CPU Solution	Intel® Pentium® 4	Intel® Pentium® 4	Intel® Pentium® 4 / AMD AM2	Intel® Pentium® 4
Socket Solution	Socket 478	Socket 478	Socket 478 / Socket AM2 for IEI SBC	Socket 478
Dimensions (mm)	92 x 92 x 67	89 x 76 x 26	83 x 68.8 x 31.2	83 x 70 x 55
Material	Cu	Cu-Al	Cu	Aluminum Alloy
Bearing Type	Rifle	Two-ball	Two-ball	Two-ball
Capability (Watt)	115W	86W	65W	86W
Fan Speed (RPM)	3600	4800	4800	4800
Noise Level (dBA)	39.6	37	37	42.4
Life Expectancy (hrs)	40000	40000	50000	50000
Weight	390g	204g	470g	284g

## Mobile CPU Cooler

## Desktop CPU Cooler

## CPU Cooler

	50W	20W	40W	
				
Pentium® M Cooler			Pentium® 3 Cooler	BLOWER
Model Name	CF-479B-RS	CF-518-RS	CF-370A-RS	BF-02-RS
Description	High Performance Socket 479, M and P Intel® Pentium® M CPU Cooler, RoHS	High Performance Intel® Pentium® M CPU Cooler, RoHS	High Performance Slim Type Socket 370 CPU Cooler, RoHS	Bracket Cooling Fan, RoHS
CPU Solution	Intel® Pentium® M, Core™2 Duo (Mobile)	Intel® Pentium® M	Intel® Pentium® 3	Bracket cooling fan
Socket Solution	Socket 479	Socket 479	Socket 370	
Dimensions (mm)	50 x 50 x 26	60 x 60 x 26	50 x 52 x 20	112 x 90 x 21
Material	Al	Aluminum Alloy	Cu-Al	Plastic
Bearing Type	Two-ball	Two-ball	Two-ball	One-ball
Capability (Watt)	50W	20W	40W	
Fan Speed (RPM)	6000	5000	5500	2800
Noise Level (dBA)	39	36.1	32.1	28
Life Expectancy (hrs)	40000	50000	40000	45000
Weight	86g	116g	62g	107.5g

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# Industrial Flash Module Series (SATA & PATA Interface)

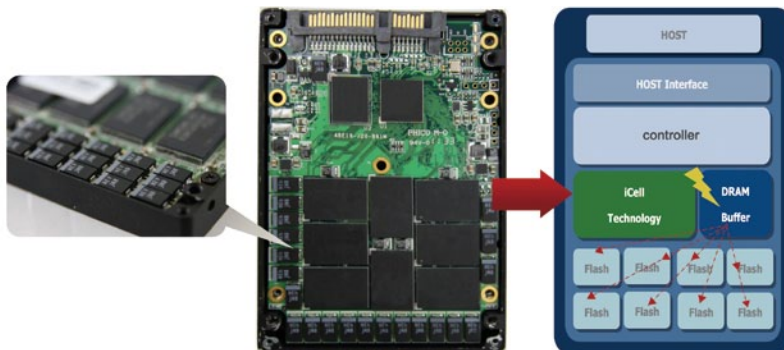
## IEI Industrial SSD Series

IEI IFD series SSD brings you to experience a high level performance. Sequential read/write reaches up to 250 and 200MB per second respectively. Within a DRAM structure in hardware design, IFD-2510AC's performance of random read/write has been enhanced significantly. Therefore, it benefits for systems doing random access, especially while the data size is small. Take 4KB IOPS for an example, IFD-2510AC's random read reaches up to 10000 and random write is up to 2000.

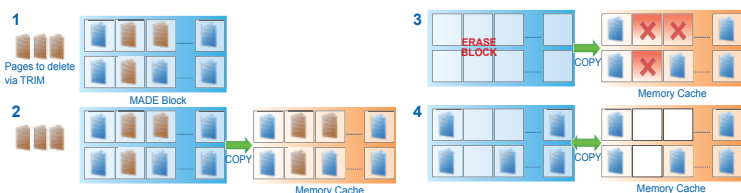
## iCell Technology

Different from other SSD vendors, IFD-2510AC is designed within iCell, which developed by the RD team.

iCell makes SSD work well and ensures reliability and accuracy of data transfer. There will be no data loss even when abnormal power failure happens.



## TRIM Function



SSDs are made up of millions of NAND flash cells. They can be written to in groups called pages (generally 4KB in size) but can only be erased in larger groups called blocks (generally 128 pages or 512KB). These stipulations are partially the source of many SSD performance issues.

In a supported OS (e.g. Windows® 7), whenever you permanently delete a file or format your drive, the addresses that are erased are sent along with the TRIM command to the SSD's controller. The TRIM instruction tells the SSD that those locations don't contain valid data and that it no longer has to track them.

Model Name	2.5" IFD-2510AC	2.5" IFD SATA 2510IS	2.5" IFD ATA 2500JC	SATA Silm H
Picture				
Key Features	iCell (UPS) technology, 100% avoid data loss during any unexpected power spikes, dips or failures	High speed R/W and main stream SLC SSD	High reliability standard ATA/IDE SSD	Compliant with 2.5" SSD positioning hole
Interface	2.5" SATA 3Gb/s, 7+15P		2.5" IDE, 44-pin male (2.0mm)	SATA 3Gb/s, 7+15P
Flash Type	SLC			
Capacity (GB)	8G/16G/32G/64G/128G/256G		8G/16G/32G/64G/128G	2G/4G/8G/16G/32G
Sequential R/W (Max.)	250/200 MB/Sec	240/220 MB/Sec	85/75 MB/Sec	125/120 MB/Sec
Power Consumption (Max.)	3.5 W (5Vx700mA)	2.8 W (5Vx560mA)	2W (5Vx400mA)	1 W (5Vx200mA)
Dimensions (WxLxH)	69.85 x 100.1 x 9.30 mm		69.85 x 100.1 x 9.30 mm	50 x 69.2 x 9 mm
iCell Support (UPS)	✓	✗	✗	✗
External Dram Buffer	✓	✗	✗	✗
Trim	✓	✓	✗	✗
Thermal Sensor	✓	✓	✗	✗
Others	S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology), ATA Security, Vibration: 20G @7~2000Hz, Shock 1500G @ 0.5ms, Storage Temperature: -55°C~+95°C, MTBF: 1 million hours			
DC Input Voltage	5V Single power supply operation			
P/N	STD (0°C~+70°C)	IFD-2510IS-256GB-R20 IFD-2510IS-128GB-R20 IFD-2510IS-64GB-R20 IFD-2510IS-32GB-R20 IFD-2510IS-16GB-R20 IFD-2510IS-8GB-R20	IFD-2500JC-128GB IFD-2500JC-64GB IFD-2500JC-32GB IFD-2500JC-16GB IFD-2500JC-8GB	SATASLIM-QH-32GB SATASLIM-QH-16GB SATASLIM-QH-8GB SATASLIM-QH-4GB SATASLIM-DH-2GB
	WT (-40°C~+85°C)	IFD-2510WT-256GB-R20 IFD-2510WT-128GB-R20 IFD-2510WT-64GB-R20 IFD-2510WT-32GB-R20 IFD-2510WT-16GB-R20 IFD-2510WT-8GB-R20	IFD-2500JW-128GB IFD-2500JW-64GB IFD-2500JW-32GB IFD-2500JW-16GB IFD-2500JW-8GB	SATASLIM-WQH-32GB SATASLIM-WQH-16GB SATASLIM-WQH-8GB SATASLIM-WQH-4GB SATASLIM-WDH-2GB
Operating System support TRIM	Windows® 7, Windows® Server 2008 R2, Linux 2.6.33, OpenSolaris, FreeBSD 8.1/8.3/9.0, DragonFly BSD			

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


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## Interface comparison







	SATA 3Gb/s	PATA	PCIe 1.0	SD	USB 2.0
Transfer rate	3Gb/s	UDMA (max.) = 133MB/s	2.5Gb/s	Class 10 10MB/s Min.	480MB/s
Hot Swap/Hot Plug	✓		✓	✓	✓
Peer to Peer			✓		
IEI Product	IFD-25X0, IFM-3X00, IPE-5200XM	IFD-2500J, IFM-4400/8800, ICF-1000/8000	IPE-5200XP	ISD-1000, MSD-1000	IPE-5200XU

## Industrial Flash Module Series (SATADOM)

### ■ SLC vs MLC vs TLC

	SLC Single Level	MLC Multi Level	TLC Triple Level
Array Performance	Read Page: 25µs Program Page: 230µs Erase Block: 700µs	Read Page: 50µs Program Page: 900µs Erase Block: 3ms	N/A
Architecture	SLC Flash has only two states: erased (empty) or Programmed (full). 	MLC Flash has four states: erased (empty), 1/3, 2/3, and programmed (full). 	TLC Flash has eight states: erased (empty), 1/7, 2/7, 3/7, 4/7, 5/7, 6/7 and programmed (full). 
Read/Write	Faster	Faster	Slower
Power Consumption	Lower	Lower	Higher
Endurance (P/E Cycles)	100K	1~3K	Under 500
Data Retention	10 Years	5~8 Years	Under 3 Year
Cost	TLC > MLC > SLC		
Density	SLC > MLC > TLC		
Application	1. IPC, embedded, automation 2. Commercial application	1. POS, Kiosk system 2. Commercial application	1. Consumer application 2. MP3, Pen-Drive


### ■ SATADOM-IFM 3000/3300 Series

Model Name	IFM-3300		IFM-3000		IFM-3000	
Picture						
Key Features	Vertical, High Speed	Horizontal, High Speed	Vertical, Low Profile SATADOM	Horizontal, Short SATADOM	Vertical, Slim SATADOM	Horizontal, Slim SATADOM
Interface & Flash Type	SATA 3Gb/s (SLC)					
Capacity (GB)	2G/4G/8G/16G/32G		128M/256M/512M/1G/2G/4G/8G			
Sequential R/W (Max.)	130/125 MB/Sec		68/63 MB/Sec			
Power Consumption (Max.)	1 W (5V@200 mA)		0.83W (5V@166 mA)			
Dimensions (WxLxH)	25 x 39.4 x 6.5mm	30 x 40 x 11.4 mm	29.5 x 32.5 x 8 mm	20.3 x 30 x 11.4 mm	20.9 x 39.55 x 7.9 mm	18 x 30.3 x 11.4 mm
White Protect	✓					
Thermal Sensor	✓					
Others	S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology), ATA Security, Vibration: 20G @ 7~2000Hz, Shock: 1500G @ 0.5ms, Storage Temperature: -55°C~+95°C					
P/N	STD (0°C~+70°C)	IFM-3300IS-32GB-R20 IFM-3300IS-16GB-R20 IFM-3300IS-8GB-R20 IFM-3300IS-4GB-R20 IFM-3300IS-2GB-R20	IFM-3300IPS-32GB-R20 IFM-3300IPS-16GB-R20 IFM-3300IPS-8GB-R20 IFM-3300IPS-4GB-R20 IFM-3300IPS-2GB-R20	IFM-3000IL(X)S-8GB-R20 IFM-3000IL(X)S-4GB-R20 IFM-3000IL(X)S-2GB-R20 IFM-3000IL(X)S-1GB-R20 IFM-3000IL(X)S-512MB-R20 IFM-3000IL(X)S-256MB-R20 IFM-3000IL(X)S-128MB-R20	IFM-3000IS-8GB-R20 IFM-3000IS-4GB-R20 IFM-3000IS-2GB-R20 IFM-3000IS-1GB-R20 IFM-3000IS-512MB-R20 IFM-3000IS-256MB-R20 IFM-3000IS-128MB-R20	IFM-3000IPS-8GB-R20 IFM-3000IPS-4GB-R20 IFM-3000IPS-2GB-R20 IFM-3000IPS-1GB-R20 IFM-3000IPS-512MB-R20 IFM-3000IPS-256MB-R20 IFM-3000IPS-128MB-R20
	WT (-40°C~+85°C)	IFM-3300WS-32GB-R20 IFM-3300WS-16GB-R20 IFM-3300WS-8GB-R20 IFM-3300WS-4GB-R20 IFM-3300WS-2GB-R20	IFM-3300WPS-32GB-R20 IFM-3300WPS-16GB-R20 IFM-3300WPS-8GB-R20 IFM-3300WPS-4GB-R20 IFM-3300WPS-2GB-R20	IFM-3000WL(X)S-8GB-R20 IFM-3000WL(X)S-4GB-R20 IFM-3000WL(X)S-2GB-R20 IFM-3000WL(X)S-1GB-R20 IFM-3000WL(X)S-512MB-R20 IFM-3000WL(X)S-256MB-R20 IFM-3000WL(X)S-128MB-R20	IFM-3000WS-8GB-R20 IFM-3000WS-4GB-R20 IFM-3000WS-2GB-R20 IFM-3000WS-1GB-R20 IFM-3000WS-512MB-R20 IFM-3000WS-256MB-R20 IFM-3000WS-128MB-R20	IFM-3000WPS-8GB-R20 IFM-3000WPS-4GB-R20 IFM-3000WPS-2GB-R20 IFM-3000WPS-1GB-R20 IFM-3000WPS-512MB-R20 IFM-3000WPS-256MB-R20 IFM-3000WPS-128MB-R20

IFM-3000IL(X)S; X: V, P  
IFM-3000WL(X)S; X: V, P



# Industrial Flash SATA & PCIe Module Series

SATA SLIM	
Picture	
Key Features	JEDEC MO-297
Interface	SATA 3Gb/s, 7+15P
Capacity (GB)	2G/4G/8G/16G/32G
Sequential R/W (Max.)	125/120 MB/Sec
Power Consumption (Max.)	1 W (5V@200 mA)
Dimensions (WxLxH)	29.85 x 50.8 x 3.5 mm
Thermal Sensor	Yes

## The PCIe Mini DOM Advantages












The PCIe Mini DOM designed for industrial PCs and embedded systems features standard PCI Express Mini interface, driverless and plug & play capabilities.

- Standard PCI Express
- Plug & Play
- Driverless
- 2GB~64GB within SLC flash
- Supports Windows® XP Embedded, Windows® 7 Embedded
- Customized function support

SATASILM	
SATASILM-Q-32GB	SATA interface 0°C ~ 70°C R: 130MB/s W: 125MB/s four channels 32GB
SATASILM-Q-16GB	SATA interface 0°C ~ 70°C R: 130MB/s W: 125MB/s four channels 16GB
SATASILM-Q-8GB	SATA interface 0°C ~ 70°C R: 86MB/s W: 72MB/s four channels 8GB
SATASILM-Q-4GB	SATA interface 0°C ~ 70°C R: 93MB/s W: 38MB/s four channels 4GB
SATASILM-D-2GB	SATA interface 0°C ~ 70°C R: 47MB/s W: 16MB/s dual channel 2GB
SATASILM W/T	
SATASILM-WQ-32GB	SATA interface -40°C ~ 85°C R: 130MB/s W: 125MB/s four channels 32GB
SATASILM-WQ-16GB	SATA interface -40°C ~ 85°C R: 130MB/s W: 125MB/s four channels 16GB
SATASILM-WQ-8GB	SATA interface -40°C ~ 85°C R: 86MB/s W: 72MB/s four channels 8GB
SATASILM-WQ-4GB	SATA interface -40°C ~ 85°C R: 93MB/s W: 38MB/s four channels 4GB
SATASILM-WD-2GB	SATA interface -40°C ~ 85°C R: 47MB/s W: 16MB/s dual channel 2GB



	mSATA	PCIe Mini DOM	mini DOM-U
Form Factor		PCIe Mini	
Transfer Protocol	SATA II	PCIe 1.0x1	USB 2.0
Data Transfer Rate Max.	600 MB/Sec.	500 MB/Sec.	60 MB/Sec.
Standard			
Compatible with PCIe Mini Pinout		✓	✓
Pin Definition	Pin 23/25-Tx+/TX- Pin 31/33-RX-/RX+	Pin 23/25-PERn0/PERp0 Pin 31/33-PERn0/PETp0	Pin 36-USB_D- Pin 36-USB_D+
	IPE-5200IM	IPE-5200IP	IPE-5200IU

Model Name	IPE-5200IM	IPE-5200IP	IPE-5200IU
Picture	 	 	 
Key Features	High-performance with small form factor	High Speed & Capacity, W/O Driver	PCIe Interface with USB 2.0 Protocol
Interface	SATA 3Gb/s	PCI Express 1.0	USB 2.0
Capacity (GB)	2G/4G/8G/16G/32G	2G/4G/8G/16G/32G/64G	2G/4G/8G/16G/32G
Sequential R/W (Max.)	150/140 MB/Sec	135/120 MB/Sec	30/20 MB/Sec
Power Consumption (Max.)	0.66W (3.3V@200mA)	1.09W (3.3V@330mA)	0.41W (3.3V@125mA)
Dimensions (WxLxH)	29.85 x 50.8 x 3.5mm	29.85 x 50.8 x 6.8 mm	29.85 x 50.8 x 3.3 mm
White Protect	optional	optional	x
Others	S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology), ATA Security, Vibration: 20G @7~2000Hz, Shock: 1500G @ 0.5ms, Storage Temperature: -55°C~+95°C		
P/N	STD (0°C~+70°C)	IPE-5200IP-64G-R20 IPE-5200IP-32G-R20 IPE-5200IP-16G-R20 IPE-5200IP-8G-R20 IPE-5200IP-4G-R20 IPE-5200IP-2G-R20	IPE-5200IU-32G-R20 IPE-5200IU-16G-R20 IPE-5200IU-8G-R20 IPE-5200IU-4G-R20 IPE-5200IU-2G-R20
	WT (-40°C~+85°C)	IPE-5200WP-64G-R20 IPE-5200WP-32G-R20 IPE-5200WP-16G-R20 IPE-5200WP-8G-R20 IPE-5200WP-4G-R20 IPE-5200WP-2G-R20	IPE-5200WU-32G-R20 IPE-5200WU-16G-R20 IPE-5200WU-8G-R20 IPE-5200WU-4G-R20 IPE-5200WU-2G-R20

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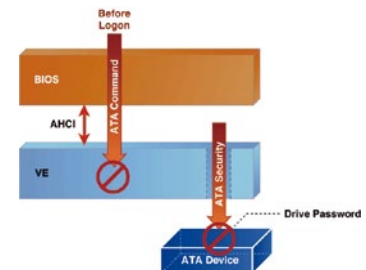
# Industrial Flash Module Series (IDE Interface)

## What's ATA Security?





The optional ATA Security Mode feature set is a password system that restricts access to user data stored on a device. The purpose is to:

- protect the storage for illegal access;
- prevent the unauthorized set of a new password (by a Virus or other malware).

When the security system is enabled, access to user data on the device is denied after a power cycle until the password is sent to the device with the SECURITY UNLOCK command.



## Industrial IDE Flash Module

Model Name		iCF 8000		iCF 1000+		IFM 8800	IFM 4400
Picture							
Capacity	2GB~8GB		128MB~32GB		128MB~16GB    256MB~8GB	2GB~8GB	128MB~16GB (Vertical)
Interface	50-pin CompactFlash®		50-pin CompactFlash®		50-pin CompactFlash®	44-pin IDE/ATA	44-pin IDE/ATA
IDE Transfer Mode	PIO mode 0-4 MwDMA mode 0-4 UltraDMA mode 0-7		PIO mode 0-4 MwDMA mode 0-4 UltraDMA mode 0-4		PIO Mode 0-6 MwDMA Mode 0-4 UltraDMA Mode 0-4	PIO mode 0-6 MwDMA mode 0-4 UltraDMA mode 0-7	PIO mode 0-4 MwDMA mode 0-4 UltraDMA mode 0-6
Operation Temp.	0°C~+70°C (Standard) /-40°C~+85°C (Industrial)						
Storage Temp.	-55°C~+95°C			-40°C~+100°C		-55°C~+95°C	
Humidity	10%-95% non-condensing						
Vibration/Shock (7/2000Hz)/(0.5ms)	1500G/0.5ms			1500G/0.5ms		1500G/0.5ms	
DC Power Input	ICF:+3.3V~+5V single power supply operation			Supply voltage: 3.3V & 5V		ICF:+3.3V~+5V single power supply operation	
Power Mode	Auto Stand-by and sleep mode					Auto Stand-by and sleep mode	
Power Consumption (Max.)	1.05W (5V@210mA)			95 mA		1.05W (5V@210mA)	
Dimensions (WxLxH) (mm)	36.4 x 42.8 x 3.3		36.4 x 42.8 x 3.3		36.4 x 42.8 x 3.3	44-pin: 27.8 x 50.3 x 5.8	44-pin: 27.8 x 50.3 x 5.8
ATA Security	Yes		Yes			Yes	Yes
P/N	STD (0°C~+70°C)	ICF-8000CD-8GB ICF-8000CD-4GB ICF-8000CD-2GB	ICF-1000IPD-32GB ICF-1000IPD-16GB ICF-1000IPD-8GB ICF-1000IPD-4GB ICF-1000IPD-2GB ICF-1000IPS-2GB ICF-1000IPD-1GB ICF-1000IPS-1GB ICF-1000IPS-512MB ICF-1000IPS-256MB ICF-1000IPS-128MB	ICF-1000IAS-128MB ICF-1000IAS-256MB ICF-1000IAS-512MB ICF-1000IAS-1GB ICF-1000IAS-2GB ICF-1000IAS-16GB	ICF-1000IAD-256MB ICF-1000IAD-512MB ICF-1000IAD-1GB ICF-1000IAD-2GB ICF-1000IAD-4GB ICF-1000IAD-8GB	IFM-8800CD-8GB IFM-8800CD-4GB IFM-8800CD-2GB	IFM-4400IPD-16GB IFM-4400IPD-8GB IFM-4400IPD-4GB IFM-4400IPD-2GB IFM-4400IPS-2GB IFM-4400IPD-1GB IFM-4400IPS-1GB IFM-4400IPS-512MB IFM-4400IPS-256MB IFM-4400IPS-128MB
	WT (-40°C~+85°C)	ICF-8000WD-8GB ICF-8000WD-4GB ICF-8000WD-2GB	ICF-1000WPD-32GB ICF-1000WPD-16GB ICF-1000WPD-8GB ICF-1000WPD-4GB ICF-1000WPD-2GB ICF-1000WPS-2GB ICF-1000WPD-1GB ICF-1000WPS-1GB ICF-1000WPS-512MB ICF-1000WPS-256MB ICF-1000WPS-128MB	ICF-1000WAS-128MB ICF-1000WAS-256MB ICF-1000WAS-512MB ICF-1000WAS-1GB ICF-1000WAS-2GB ICF-1000WAS-16GB	ICF-1000WAD-256MB ICF-1000WAD-512MB ICF-1000WAD-1GB ICF-1000WAD-2GB ICF-1000WAD-4GB ICF-1000WAD-8GB	IFM-8800WD-8GB IFM-8800WD-4GB IFM-8800WD-2GB	IFM-4400WPD-16GB IFM-4400WPD-8GB IFM-4400WPD-4GB IFM-4400WPD-2GB IFM-4400WPD-1GB IFM-4400WPS-2GB IFM-4400WPS-1GB IFM-4400WPS-512MB IFM-4400WPS-256MB IFM-4400WPS-128MB

## Industrial SD/microSD card

- Compatible with SD 1.x/2.0 specification
- Excellent data transfer rate
- Support wear-leveling algorithm
- Built-in ECC function
- Support Content Protection for Recordable Media (CPRM)
- Support auto-standby, power-off and sleep mode
- Support S.M.A.R.T function
- Auto Data Refresh prevents read disturbance

Item	IEI Industrial SD	Consumer SD
Flash Type	SLC / MLC	MLC / TLC
Operation Temperature	-40°C~85°C	-25°C~85°C
Product Longevity Supply (fixed BOM)	Yes	
Sequential R/W Performance (MB/s)	20 / 16	18 / 13
Technical Support	Yes	
Power Cycling Enhanced	Over 3,000 cycles	
S.M.A.R.T	Support	

Model Name	Industrial SD card		Industrial microSD card
Picture			
Key Features	Support S.M.R.R.T & Data Refresh function		
Interface	SD 1.x / 2.0		
Capacity (GB)	128M/256M/512M/1G/2G/4G/8G		1G/2G/4G
Sequential R/W (Max.)	20/16 MB/Sec		20/14 MB/Sec
Power Consumption (Max.)	0.2W (3.3V@60mA)		0.17W (3.3V@50mA)
Dimensions (WxLxH) (mm)	24 x 32 x 2.1		11 x 15 x 1
White Protect	✓		✗
Others	S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology) Vibration: 5G @7~2000Hz, Shock: 50G @ 10ms, Storage Temperature: -55°C~+95°C		
P/N	STD (0°C~+70°C)	ISD-1000I-8GB ISD-1000I-4GB ISD-1000I-2GB ISD-1000I-1GB	ISD-1000I-512MB ISD-1000I-256MB ISD-1000I-128MB
	WT (-40°C~+85°C)	ISD-1000W-8GB ISD-1000W-4GB ISD-1000W-2GB ISD-1000W-1GB	ISD-1000W-512MB ISD-1000W-256MB ISD-1000W-128MB

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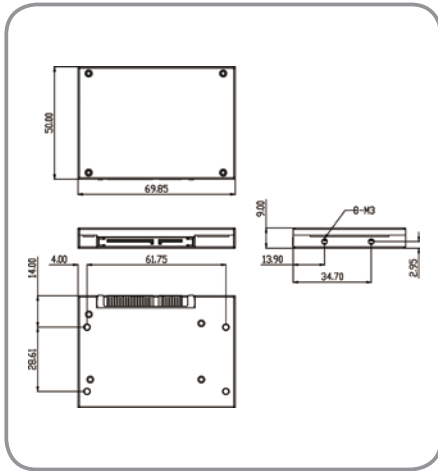
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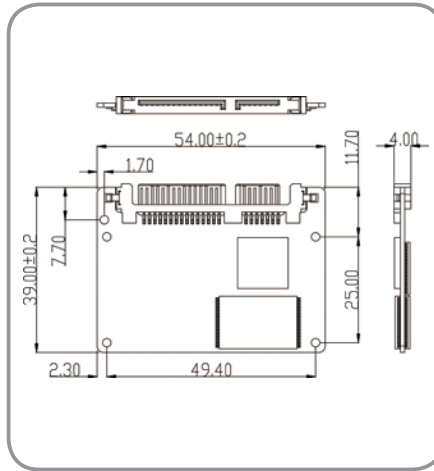
# IEI Industrial Flash Module Series

## ■ Dimension Drawing

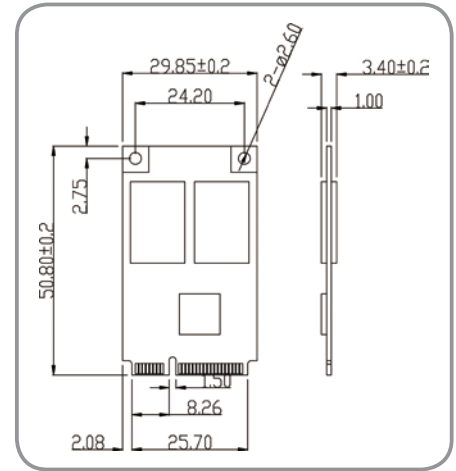
### SATA Slim with Compliant



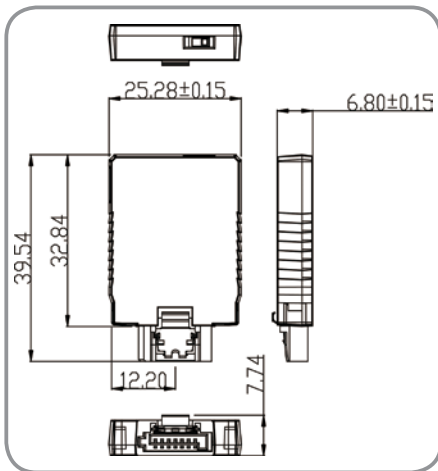
### SATA Slim



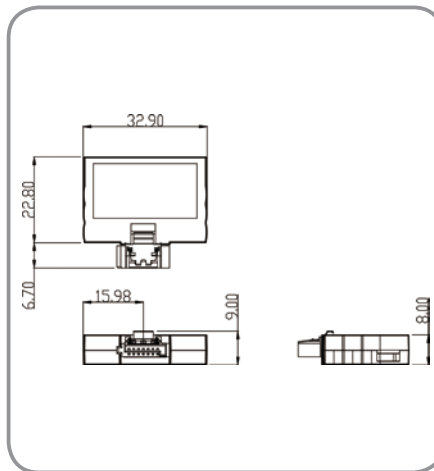
### Mini PCIe DOM



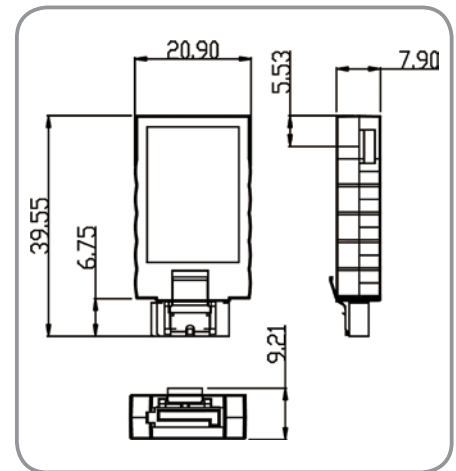
### IFM-3300IS IFM-3300WS



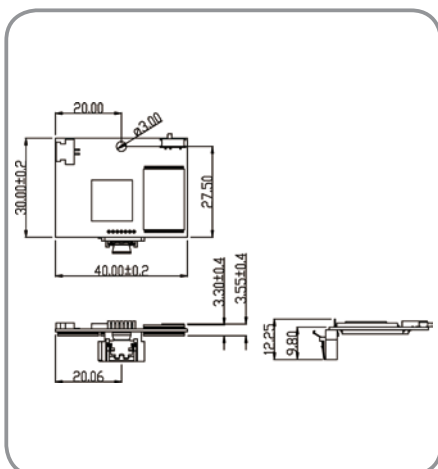
### IFM-3300ILVS IFM-3300WLVS



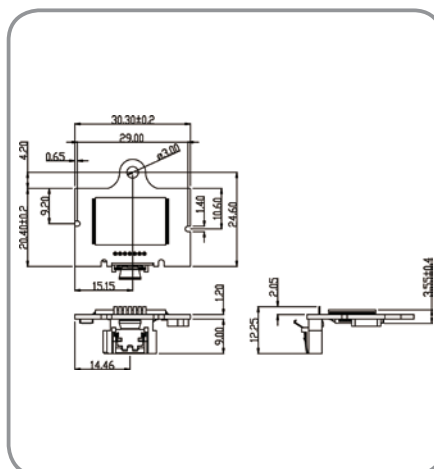
### IFM-3000IS IFM-3000WS



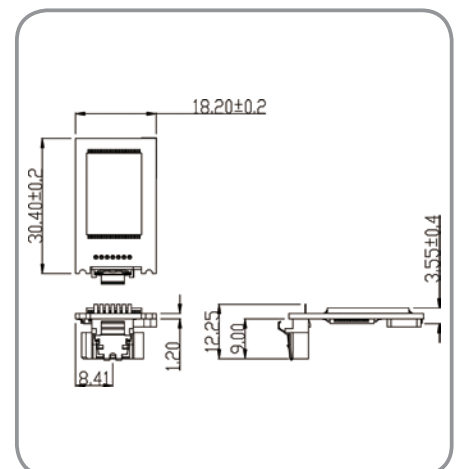
### IFM-3300IPS IFM-3300WPS



### IFM-3300ILPS IFM-3300WLPS



### IFM-3000IPS IFM-3000WPS



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# Ensuring The Best System Performance

## ■ DDR3 1.35V iDIMM

### Features

- Low Power
- Major on 3rd
- Thermal Sensor Design Ready
- 100% System Level Test

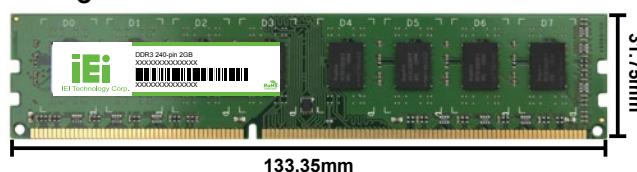
### DDR3 1.35V iDIMM

Module Speed	1333 MHz	1.35V
DIMM	240-pin	
SO-DIMM	204-pin	
CAS Latency	CL9	

## ■ iDIMM + SO-DIMM



## ■ Long-DIMM



## Ordering Information **New**



1.35V DDR3 SO-DIMM	Description
79B00-G002-013-RS	DDR3 1333 2GB SO-DIMM CL9 256M*8
79B00-G004-008-RS	DDR3 1333 4GB SO-DIMM CL9 256M*8
1.35V DDR3 DIMM	Description
79A00-G002-016-RS	DDR3 1333 2GB LONG-DIMM CL9 256M*8
79A00-G004-011-RS	DDR3 1333 4GB LONG-DIMM CL9 256M*8

## ■ Complete product line of Industrial

*IEI provide complete product line of industrial*

### Features

- Refresh → TREFI=7.8ms from -40°C~+85°C
- 30ms Gold Finger
- Stern Test of parameter
- High reliability

**-40°C~+85°C  
Wide Temp.  
Available**



## DDR W/T Solution

Module Speed	400 MHz
DIMM	184-pin
SO-DIMM	200-pin
CAS Latency	CL3

### DDR SO-DIMM



### DDR DIMM (Low Profile)



## Ordering Information

DDR SO-DIMM W/T	Description
79300-M512-082-RS	DDR 400 512MB SO-DIMM CL3 32M*16
79300-M256-067-RS	DDR 400 256MB SO-DIMM CL3 32M*16
DDR DIMM W/T	Description
79300-G001-058-RS	DDR 400 1GB DIMM CL3 64M*8
79300-M512-082-RS	DDR 400 512MB DIMM CL3 64M*8 (Low profile)

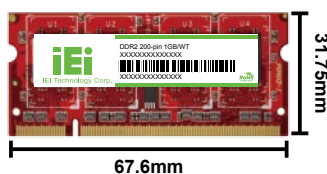
### DDR Long-DIMM



## DDR2 W/T Solution

Module Speed	667 MHz
DIMM	240-pin
SO-DIMM	200-pin
CAS Latency	CL5

### DDR2 SO-DIMM



### DDR2 DIMM (Low Profile)



## Ordering Information

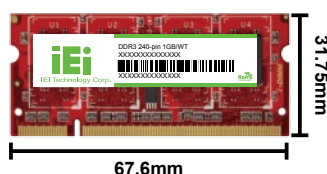
DDR2 SO-DIMM W/T	Description
79900-G001-044-RS	DDR2 667 1GB SO-DIMM CL5 64M*8
79900-M512-025-RS	DDR2 667 512MB SO-DIMM CL5 64M*8

DDR2 DIMM W/T	Description
79800-M512-022-RS	DDR2 667 512MB Long-DIMM CL5 64M*8 (Low profile)

## DDR3 W/T Solution

Module Speed	1333 MHz
DIMM	240-pin
SO-DIMM	240-pin
CAS Latency	CL9

### DDR3 SO-DIMM



### DDR3 Long-DIMM



## Ordering Information

DDR3 SO-DIMM W/T	Description
79B00-G001-010-RS	DDR3 1333 1GB SO-DIMM CL9 128M*8
79B00-G002-006-RS	DDR3 1333 2GB SO-DIMM CL9 256M*8
79B00-G004-009-RS	DDR3 1333 4GB SO-DIMM CL9 256M*8

DDR3 DIMM W/T	Description
79A00-G002-017-RS	DDR3 1333 2GB DIMM CL9 256M*8

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## Drive Cage *Standard 3.5" devices 5.25" Drive Bay Solutions*

Following the traditional industrial system needs for stability, durability and toughness for storage drive operating condition, IEI provides various kinds of standard 3.5" devices 5.25" removable drive bay and modules for each different demands.

	SATA / IDE / SSD Solution		SATA Solution	
				
Model Name	XWC-410030507220-RS	XWC-410030507230-RS	7G000-ST1110L-RS	RD-03A-RS / RD-03A-B-RS
Dimensions (L x W x H) (mm)	150 x 146 x 42	150 x 146 x 42	185 x 126.5 x 28	190 x 148 x 42
Material	Aluminum	Aluminum	Aluminum	Aluminum alloy
Interface	SATA / IDE / SSD	SATA / IDE / SSD	SATA	SATA
Data Transfer Rate				up to 300MB/Sec
Drive Bay Space	One 5.25" Device Bay	One 5.25" Device Bay	Meet PAC-400G	One 5.25" Device Bay
HDD Type	Internal 3.5" device bay	Internal 3.5" device bay	3.5" SATA	3.5" SATA
Cooling Fan				4010 ball bearing
Hot Swap	No	No	Yes	Yes
Keylock	No	No	Yes	Yes
Signal Out	No	No	One 15-pin power connector	Power on signal out (high) HDD access signal out (high)
Color	Black	White	White	White / Black
G.W.	0.2kg	0.2kg	0.3kg	0.3kg

	SATA Solution		
			
Model Name	RHD-302SATA-RS	RHD-403SATA-RS	RHD-503SATA-R10
Dimensions (L x W x H) (mm)	220 x 148 X 85.8	220 x 148 X 127	220.0 x 147.0 x 127.0
Material	Aluminum alloy	Aluminum alloy	Aluminum body w/ partial plastic
Interface	SATA	SATA	SATA
Data Transfer Rate	up to 300MB/Sec	up to 300MB/Sec	up to 300 MB/sec (depending on hard drive speed)
Drive Bay Space	2 x 5.25" drive bay for 3 x 3.5" HDD	3 x 5.25" drive bay for 4 x 3.5" HDD	3 x 5.25" drive bay for 5 x 3.5" HDD
HDD Type	3.5" SATA	3.5" SATA	3.5" SATA 1.5Gb/s or SATA 3Gb/s
Cooling Fan	8020 ball bearing (Removable)	8020 ball bearing (Removable)	Detachable rear outtake fan w/ aluminum heat dispersion
Hot Swap	Yes	Yes	Yes
Keylock	No	No	No
Signal Out	3 x HDD power signal out (+5V, GND) 1 x Temperature overhear signal out (5V, GND) 1 x Fan fail signal out (5V, GND) 3 x HDD access signal out (+5V, GND) 1 x Reset signal out (High, GND)	4 x HDD power signal out (+5V, GND) 1 x Temperature overhear signal out (5V, GND) 1 x Fan fail signal out (5V, GND) 4 x HDD access signal out (+5V, GND) 1 x Reset signal out (High, GND)	5 x HDD power signal Out (+5V, GND) 1 x Temperature overhear signal out (5V, GND) 1 x Fan fail signal out (5V, GND) 5 x HDD access signal out (+5V, GND) 1 x Reset signal out (High, GND)
Color	Black bezel and silver housing	Black bezel and silver housing	Black bezel and silver housing
G.W.	1.0kg	1.3kg	2kg

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# Drive Cage    Standard 3.5" devices 5.25" Drive Bay Solutions

	SATA Solution		IDE Solution	SATA / IDE / SSD	
					
Model Name	RHD-101SATA-R10	RHD-104SATA-R10	RHF-21-SATA-R10	RHF-21-IDE-RS	AS-25D2--R10
Dimensions (L x W x H) (mm)	135 x 101.6 x 25.6	170 x 146 x 41.3	151.5 x 102 x 25.7	151.5 x 102 x 25.7	143 x 106 x 26
Material	SECC	SECC	SECC	SECC	Plastic body with stainless steel 2.5" HDD bracket
Interface	7-pin SATA x 2	7-pin SATA x 4	SATA	IDE	SATA / IDE / SSD
Data Transfer Rate	Up to 600 MB/sec	Up to 600 MB/sec	No	No	No
Drive Bay Space	One 3.5" Device Bay	One 5.25" Device Bay	Internal 3.5" device bay	Internal 3.5" device bay	Two 2.5" Device Bay
HDD Type	2.5" SAS or SATA I / II / III 1 x HDD/SSD	2.5" SAS or SATA I / II / III 4 x HDD/SSD	2.5" SATA HDD	2.5" IDE HDD	Internal 3.5" device bay
Cooling Fan	Metal heat dispersion	2 x 40 mm rear outtake fan w/ aluminum heat dissipation	No	No	Open air design for maximum air flow and cooling
Hot Swap	Yes	Yes	Yes	Yes	No
Keylock	2 x segment key lock	No	Yes	Yes	No
Signal Out	1 x HDD power signal out 1 x HDD access signal out	4 x HDD power signal out 4 x HDD access signal out	1 x Female connector 1 x SATA LED signal connector 1 x Power LED connector 1 x Key on/off connector 1 x Power/SATA LED connector 1 x Male connector	1 x DC connector 1 x Power LED connector 1 x Access LED connector 1 x DC power on/off	No
Color	Black	Black	Black	Black	Black
G.W.	0.483kg	0.95kg	0.3kg	0.3kg	0.125kg

## FCD-301



- The most suitable USB cable for IEI's CPU boards
- Support standard 3.5" drive bay; 4-pin female connector to CPU boards' pin header; length: 60cm
- RoHS compliant
- Pin definition:

Pin 1	Pin 2	Pin 3	Pin 4
+5V	Data-	Data+	GND

**3.5" compact drive bay with USB port**

## Ordering Information

Part No.	Description
<b>FCD-301[C]-RS</b>	3.5" compact drive bay with USB port, RoHS [C] Color Code: B=Black, W=White

## AS-35A / AS-25A / AS-25C

**Anti-vibration Drive Kit**



AS-35A

AS-25A

AS-25C

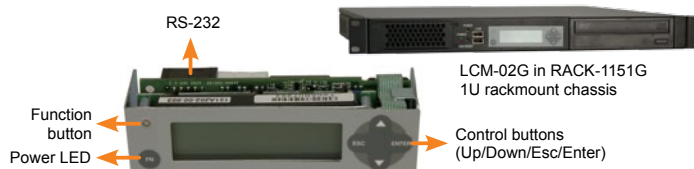
- Resistant to shocks and vibrations from all directions
- Support 2.5" HDD into 3.5" drive bay (AS-25A/ 25C)  
Support 3.5" HDD into 5.25" drive bay (AS-35A)
- Meets the following standards:
  - MIL-SLD-810F 514.5C-1 standard
  - 5-20Hz, 1G peak to peak
  - 60-200Hz, 3G peak to peak
- RoHS compliant

## Ordering Information

Part No.	Description
<b>AS-35A-RS</b>	3.5" Drive Anti-vibration Kit, RoHS
<b>AS-25A-RS</b>	2.5" Drive Anti-vibration Kit, RoHS
<b>AS-25C-RS</b>	Enhanced 2.5" Drive Anti-vibration Kit, RoHS

## LCM-02G

**16x2 LCD Message Module**

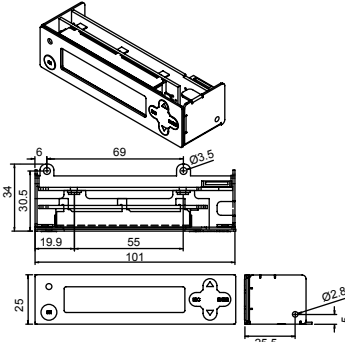


## Main Features

- ◆ RoHS compliant design
- ◆ One programmable welcome page
- ◆ Up to 8 messages auto rolling mode
- ◆ Adjustable back-light brightness
- ◆ Five programmable buttons (Four OSD buttons and One extra function button.)

## Dimensions

(measurement units: millimeter)



## Specifications

<b>Character Number</b>	16 characters x 2 lines
<b>Character Size (WxH)</b>	2.96 mm X 5.56 mm
<b>Dot Size (WxH)</b>	0.56 mm X 0.66 mm
<b>Back Light</b>	Yellow green LED with adjustable brightness
<b>LCD Size (WxH)</b>	60mm x 15mm
<b>Buttons</b>	UP / DOWN / ESC / ENTER / FN
<b>Control Interface</b>	RS-232
<b>GPIO</b>	4
<b>Power</b>	DC 5V
<b>Operating Temperature</b>	0~50°C
<b>Dimensions (WxHxD)</b>	101mm x 25mm x 34mm

## Packing List

1 x LCM-02G
1 x User manual
1 x Utility disk
1 x Power cable
1 x RS-232 cable
3 x LED, reset cable
1 x Screw set

## Ordering Information

Part No.	Description
<b>LCM-02G</b>	16 x 2 LCD Message Module, RoHS

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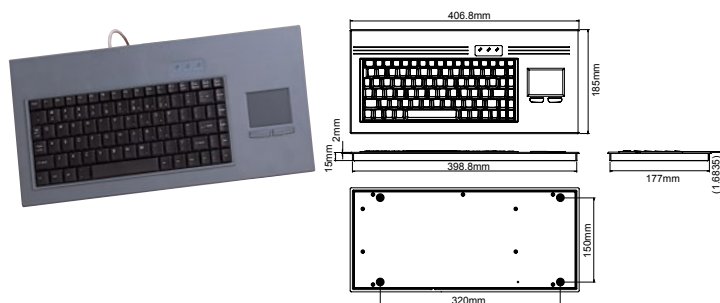
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# Industrial Keyboard Series

Industrial Keyboard Series					
					
Model Name	KM-088G	KM-088A-RS	MK-KTP5A	KBD-ACK-540	MK-KD1
Key Number	88-key	88-key	105-key	88/89 key	Standard 19" 1U height drawer With keylock and handle, compatible with KBD-ACK-540
Mouse	Touchpad	Pointing Device	Touchpad	Touchpad	
Connector	PS/2 type 6-pin mini-DIN	PS/2 type 6-pin mini-DIN	2 x PS/2 for KB/MS	2 x PS/2 for KB/MS	
Color	Black	Black	White	White	
Waterproof	NA	IP-55	NA	NA	
Dimensions (mm)	D406.8 x W185 x H15	D370 x W139 x H16	D485 x W380 x H44	D289 x W227 x H27	D482.6 x W360 x H44

## KM-088G

### 88-key and Touchpad Module



### Main Feature

- Standard English keyboard layout
- Optional Japanese, German, French and Italian keyboard layout

### Ordering Information

Part No.	Description
KM-088G - L	L: Language Code EN: English JP: Japanese DE: German FR: French IT: Italian CH: Chinese/English

## KM-088A-RS



### Main Feature

- IP55 Compliant dirt-, dust- and water-resistance
- Compact design with super low profile for easy fitting into 1U rackmount
- Specifically designed for IPC, military, Medical and other applications

### Ordering Information

Part No.	Description
KM-088A-RS	88 Keys IP55 Waterproof Keyboard with Point Device; RoHS. Notes: For other language K/B, please contact region sales.

## MK-KTP5A

### 1U Rackmount Keyboard & Touchpad Drawer



### Ordering Information

Part No.	Description
MK-KTP5A-RS	1U Rackmount Keyboard/Touchpad Drawer; RoHS

## KBD-ACK-540

### Mini 88/89 key PS/2 keyboard with touchpad



### Ordering Information

Part No.	Description
KBD-ACK-540- [L] -RS	Mini 88/89 key PS/2 Keyboard; RoHS [L]: Language Code EN: English. For other languages, please contact supplier

## MK-KD1

### 1U Rackmount Drawer



MK-KD1

MK-KD1 +  
KBD-ACK-540

### Ordering Information

Part No.	Description
MK-KD1- [C]	1U Rackmount Drawer [C]: Color Code B=Black W=White

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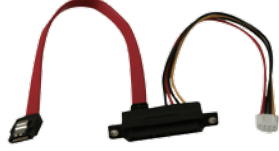
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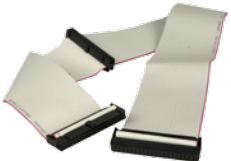



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# Cables and Connectors *FDD / HDD cable*

	FDD cable		SATA HDD cable
			
<b>Model Name</b>	<b>32229-000100-100-RS</b>	<b>32200-000058-RS</b>	<b>32801-000703-200-RS</b>
Cable type	FDD flat cable	FDD flat cable	SATA HDD cable
Connector	34p-34p-34p	34p-34p	SATA 7-pin
Connector type	2.54 mm	2.54 mm-2.0 mm	Lockable
Length	37 cm + 15 cm	35 cm	50 cm

	SATA HDD cable			
				
<b>Model Name</b>	<b>32102-000100-200-RS</b>	<b>32000-080700-RS</b>	<b>32801-000201-100-RS</b>	<b>32801-000100-100-RS</b>
Cable type	SATA power cable	SATA + Power cable	SATA + Power cable	SATA + Power cable
Connector	4-pin model + 2 x SATA 15-pin	SATA 7-pin + 4-pin model	SATA 7-pin + 2-pin wafer 2.0mm	SATA 7-pin + 4-pin wafer 2.54mm
Connector type	SATA power connector		2-pin PH 2.0	4-pin PH 2.54 mm
Length	15 cm	SATA cable 20 cm Power cable 10 cm	SATA cable 15 cm Power cable 15 cm	SATA cable 20 cm Power cable 20 cm

	IDE HDD cable			
				
<b>Model Name</b>	<b>32200-000005-RS</b>	<b>32200-000009-RS</b>	<b>32200-000037-RS</b>	<b>32200-025001-RS</b>
Cable type	IDE HDD flat cable	IDE HDD flat cable	IDE HDD flat cable	IDE HDD flat cable
Connector	40p-40p-40p	44p-44p	44p-44p	44p-40p-40p
Connector type	2.54mm	2.0mm -2.0mm	2.0mm -2.0mm	2.0mm-2.54mm-2.54mm
Length	40 cm + 17 cm	40 cm	25 cm	20 cm + 15 cm

	IDE HDD cable			
				
<b>Model Name</b>	<b>32200-000052-RS</b>	<b>32200-008800-RS</b>	<b>CB-HD32-RS</b>	<b>CVT-4044-RS</b>
Cable type	ATA-66 HDD flat cable	ATA-33 HDD flat cable	IDE HDD flat cable	IDE adapter
Connector	40p-40p-40p	44p-40p-40p	40p-44p	40p-44p
Connector type	2.54mm	2.0mm-2.54mm-2.54mm	2.54mm-2.0mm	2.54mm-2.0mm
Length	30 cm + 15 cm	20 cm + 15 cm	IDE cable: 39 cm Power cable: 20 cm	Power cable: 20 cm

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

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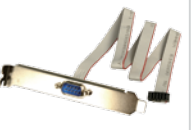





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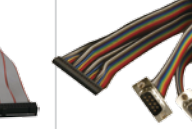
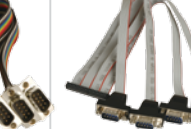

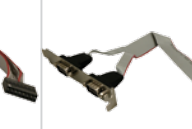
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# Cables and Connectors *Paralle / Serial cable*

	Paralle cable				Serial cable
					
<b>Model Name</b>	<b>19800-000400-100-RS</b>	<b>19800-000142-00-RS</b>	<b>19800-000027-RS</b>	<b>32200-015100-RS</b>	<b>19800-000300-100-RS</b>
Cable type	Parallel port cable	Parallel and serial port cable	Parallel and serial port cable	Parallel port cable	Serial port cable
Board side	26-pin (2x13) connector (2.54 mm)	26-pin (2x13) connector (2.54 mm) 10-pin (2x5) connector (2.54 mm)	26-pin (2x13) connector (2.0 mm) 10-pin (2x5) connector (2.0 mm)	26-pin (2x13) connector (2.0 mm)	10-pin (2x5) connector (2.0 mm)
Board side pitch	2.54 mm	2.54 mm	2.0 mm	2.0 mm	2.0 mm
Device side	DB25F	DB25F + DE9M	DB25F + DE9M	DB25F	DE9M
Bracket	Yes	Yes	Yes	No	Yes
Length	24 cm	24 cm	24 cm	28 cm	30 cm





	Serial cable					
						
<b>Model Name</b>	<b>19800-000114-RS</b>	<b>19800-000047-RS</b>	<b>19800-000051-RS</b>	<b>19800-003600-100-RS</b>	<b>19800-000112-RS</b>	<b>32200-000015-RS</b>
Cable type	Serial port cable	Serial port cable	Serial port cable	Serial port cable	Serial port cable	Serial port cable
Board side	10-pin (2x5) connector (2.54 mm)	10-pin (2x5) connector (2.54 mm)	2 x 10-pin (2x5) connector (2.54 mm)	2 x 10-pin (2x5) connector (2.54mm)	2 x 10-pin (2x5) connector (2.0 mm)	10-pin (2x5) connector (2.54 mm)
Board side pitch	2.54 mm	2.54 mm	2.54 mm	2.54 mm	2.0 mm	2.54 mm
Device side	DE9M	DE9M	2 x DE9M	2 x DE9M	2 x DE9M	DE9M
Bracket	Yes	Yes	Yes	Yes	Yes	No
Length	50 cm	30 cm	23 cm	40 cm	30 cm	23 cm





	Serial cable					
						
<b>Model Name</b>	<b>32205-002700-100-RS</b>	<b>32205-001203-100-RS</b>	<b>32100-147900-RS</b>	<b>32200-025401-RS</b>	<b>32200-026800-RS</b>	<b>19800-000058-RS</b>
Cable type	Serial port cable	Serial port cable	Serial port cable	Serial port cable	RS-422/485 cable	RS-232 & RS-422/485 cable
Board side	10-pin (2x5) connector (2.0 mm)	40-pin (2x20) connector (2.54 mm)	40-pin (2x20) connector (2.0 mm)	40-pin (2x20) connector (2.0 mm)	16-pin (2x8) connector (2.54 mm)	14-pin (2x7) connector (2.54 mm)
Board side pitch	2.0 mm	2.54 mm	2.0 mm	2.0 mm	2.54 mm	2.54 mm
Device side	DE9M	4 x DE9M	4 x DE9M	4 x DE9M	4 x DE9M	2 x DE9M
Bracket	No	No	No	No	No	Yes
Length	20 cm	40/40/40/40 cm	30 cm	30 cm	12 cm	25.5 cm






	Serial cable				
					
<b>Model Name</b>	<b>19800-004300-100-RS</b>	<b>32205-000300-100-RS</b>	<b>32205-003700-100-RS</b>	<b>19800-000063-RS</b>	<b>32205-003800-100-RS</b>
Cable type	RS-232 & RS-422/485 cable	RS-232 & RS-422/485 cable	RS-232 & RS-422/485 cable	RS-232 & RS-422/485 cable	RS-422/485 cable
Board side	14-pin (2x7) connector (2.0 mm)	14-pin (2x7) connector (2.0 mm)	14-pin (2x7) connector (2.0 mm)	4-pin (1x4) connector (2.54 mm)	4-pin (1x4) connector (2.0 mm)
Board side pitch	2.0 mm	2.0 mm	2.0 mm	2.54 mm	2.0 mm
Device side	2 x DE9M	2 x DE9M	2 x DE9M	DE9M	DE9M
Bracket	Yes	No	No	No	No
Length	25 cm	29 cm	23 cm	40 cm	20 cm


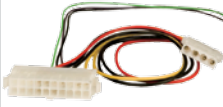



Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

# Cables and Connectors USB / 1394 / Y Cable

	USB cable			
				
<b>Model Name</b>	<b>19800-000100-200-RS</b>	<b>19800-003100-200-RS</b>	<b>19800-003000-100-RS</b>	<b>32001-002700-200-RS</b>
Cable type	USB cable	USB cable	USB cable	USB cable
Board side	2 x 4-pin (2x4) connector (2.54mm)	2 x 4-pin (1x4) connector (2.54mm)	1 x 8-pin (2x4) connector (2.0mm)	1 x 8-pin (2x4) connector (2.54mm)
Board side pitch	2.54mm	2.54mm	2.0mm	2.54mm
Device side	4 x USB	2 x USB	2 x USB	2 x USB
Bracket	Yes	Yes	Yes	No
Length	30 cm	30 cm	30 cm	21 cm

	USB cable		1394 cable	
				
<b>Model Name</b>	<b>32001-004600-100-RS</b>	<b>32001-008600-100-RS</b>	<b>CB-IEEE1394-RS</b>	<b>19800-000103-RS</b>
Cable type	USB cable	USB cable	1394 cable	1394 cable
Board side	2 x 5-pin connector (2.0mm) for WAFER-8523, WAFER-945GSE3 only	1 x 8-pin (2x4) connector (2.0mm)	2 x 8-pin (1x8) connector (2.0mm)	1 x 8-pin (1x8) connector (2.0mm)
Board side pitch	2.0mm	2.0mm	2.0 mm	2.0 mm
Device side	2 x USB	2 x USB	2 x IEEE1394	1 x IEEE1394
Bracket	No	No	Yes	Yes
Length	40 cm	21 cm	21 cm	25 cm

	Keyboard / Mouse cable				
					
<b>Model Name</b>	<b>19800-000066-RS</b>	<b>19800-000075-RS</b>	<b>32006-000300-100-RS</b>	<b>32000-043301-RS</b>	<b>32000-023800-RS</b>
Cable type	Keyboard and mouse cable	Y-Cable	Y-Cable	Y-Cable	Y-Cable
Board side	2 x 5-pin (1x5) connector (2.54mm)	1 x 6-pin (1x6) connector (2.0mm)	1 x male PS/2	1 x 6-pin (1x6) connector (2.54mm)	1 x 6-pin (1x6) connector (2.0mm)
Board side pitch	2.54mm	2.0mm		2.54mm	2.0mm
Device side	2 x Female PS/2	2 x Female PS/2	2 x Female PS/2	2 x Female PS/2	2 x Female PS/2
Bracket	Yes	Yes	No	No	No
Length	30 cm	22 cm	12 cm (KB) + 14 (MS)	60 cm	13 cm

	Power cable				
					
<b>Model Name</b>	<b>32100-087100-RS</b>	<b>32100-052100-RS</b>	<b>32102-005100-200-RS</b>	<b>32100-192900-RS</b>	<b>32100-130300-RS</b>
Cable type	12V power cable	ATX function cable	12V power cable	12V power cable	Power cable for PC/104 CPU module
Board side	1 x 4-pin (2x2) connector	1 x 20-pin ATX power connector	1 x 4-pin (2x2) connector	1 x 4-pin (2x2) connector	1 x 4-pin (1x4) molex
Device side	2 x 4-pin (1x4) molex	1 x 4-pin (1x4) molex 1 x 3-pin PS_ON connector	with lock screw	4-pin 3.5 mm terminal block	3-pin 3.5 mm terminal block
Bracket	No	No	No	No	No
Length	13 cm	30 cm	25cm	25 cm	10 cm

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

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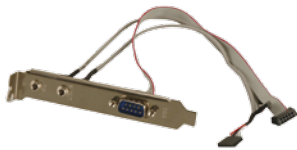
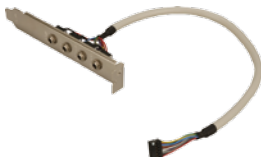

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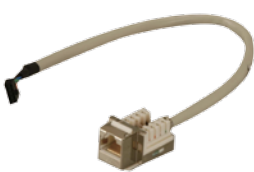


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# Cables and Connectors *Audio / LAN / VGA / Adapter Cable*

	Audio cable		
			
<b>Model Name</b>	<b>19800-000043-RS</b>	<b>19800-000800-100-RS</b>	<b>19800-000111-RS</b>
Cable type	Audio and Serial cable	Audio cable	Audio cable
Board side	Audio cable: 4-pin (1x4) connector (2.54mm) Serial cable: 10-pin (2x5) connector (2.0mm)	12-pin (2x6) connector (2.0mm)	10-pin (2x5) connector (2.0mm)
Board side pitch	Audio : 2.54mm Serial cable: 2.0mm	2.0mm	2.0mm
Device side	2 x Audio jacks / 1 x DE9M	4 x Audio jacks	3 x Audio jacks
Bracket	Yes	Yes	Yes
Length	30 cm	25 cm	30 cm

	Audio cable			
				
<b>Model Name</b>	<b>32207-000100-100-RS</b>	<b>32007-002700-100-RS</b>	<b>32000-072100-RS</b>	<b>32000-028800-RS</b>
Cable type	Audio cable	Audio cable	Audio cable	Audio cable
Board side	10-pin (2x5) connector (2.54 mm)	16-pin (2x8) connector (2.0mm)	10-pin (2x5) connector (2.0mm)	12-pin (2x6) connector (2.54mm)
Board side pitch	2.54 mm	2.0mm	2.0mm	2.54mm
Device side	10-pin (2x5) dupon	3 x Audio jacks	3 x Audio jacks	4 x Audio jacks
Bracket	No	No	No	No
Length	40 cm	25 cm	30 cm	25 cm

	LAN cable	VGA cable	
			
<b>Model Name</b>	<b>32000-055702-RS</b>	<b>32000-033800-RS</b>	<b>32000-033804-RS</b>
Cable type	LAN cable	VGA cable	VGA cable
Board side	10-pin (2x5) connector (2.0mm)	10-pin (2x5) connector (2.54mm)	10-pin (2x5) connector (2.0mm)
Board side pitch	2.0mm	2.54mm	2.0mm
Device side	1 x RJ-45	1 x DB15F	1 x DB15F
Bracket	No	No	No
Length	31 cm	30 cm	30 cm

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## Cables and Connectors *Audio / LAN / VGA / Adapter / TV / Round Cable*

	TV/HDTV-output cable				
					
<b>Model Name</b>	<b>19800-000056-RS</b>	<b>32000-132000-RS</b>	<b>32000-132100-RS</b>	<b>32010-000700-100-RS</b>	<b>32010-000400-100-RS</b>
<b>Cable type</b>	TV-out cable	HDTV cable	HDTV cable	HDTV cable	HDTV cable
<b>Board side</b>	6-pin (2x3) connector (2.54mm)	1 x Mini-DIN 7-pin connector	1 x Mini-DIN 7-pin connector	6-pin (2x3) connector (2.54mm)	6-pin (2x3) connector (2.0mm)
<b>Board side pitch</b>	2.54mm			2.54mm	2.0mm
<b>Device side</b>	1 x RCA jack 1 x S-video jack	3 x RCA jack 1 x S-video jack	3 x RCA jack	3 x RCA jack	3 x RCA jack
<b>Bracket</b>	Yes	No	No	No	No
<b>Length</b>	25 cm	15 cm	15 cm	20 cm	20 cm

	Round cable		
			
<b>Model Name</b>	<b>32000-026800-RS</b>	<b>32000-026900-RS</b>	<b>32100-047401-RS</b>
<b>Cable type</b>	ATA-66 HDD rounded cable	ATA-66 HDD rounded cable	USB cable
<b>Connector</b>	IDE 40p-40p	IDE 40p-40p	1 x 4-pin (1x4) wafer connector (2.0mm)
<b>Board side pitch</b>	2.54mm	2.54mm	2.0mm
<b>Device side</b>	IDE 40-pin	IDE 40-pin	1 x 4-pin (1x4) connector (2.0mm)
<b>Length</b>	75 cm	45 cm	50 cm
<b>Compatible model</b>	RACK-115G, RACK-1151G, RACK-3200G	RACK-115G, RACK-1151G	For front accessible USB port

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

## Rackmount Slide *Chassis optional Accessories*

	SLIDE		
			
<b>Model Name</b>	<b>SLIDE-18</b>	<b>SLIDE-24</b>	<b>EXTENDER-6</b>
<b>Specification</b>	18" rackmount slide	24" rackmount slide	6" extender
<b>Description</b>	For rackmount chassis w/ depth up to 500	For rackmount chassis w/ depth up to 500	For 18" or 24" slider

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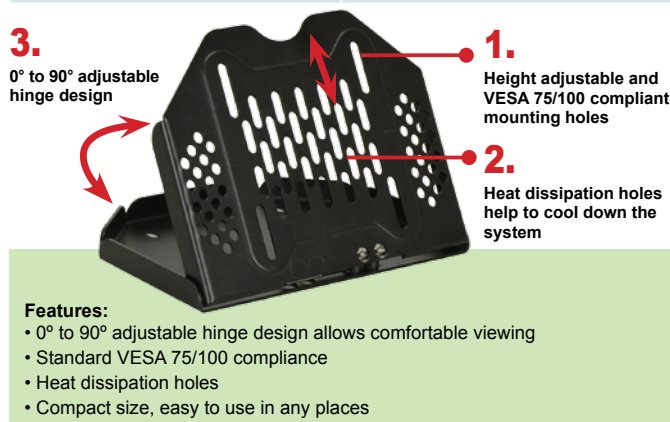


# V-STAND

## VESA Multi-Mounting Stand.

IEI patented multi-mounting V-Stand allows wall, ceiling, desk, rear and side mounting to meet diverse applications. Its 0° to 90° adjustable hinge design provides optimal viewing in various environment, such as kitchen, room or shelf.

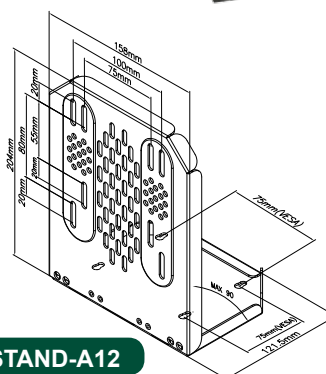
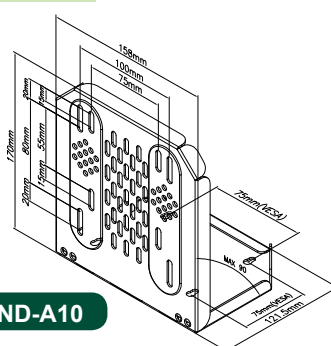
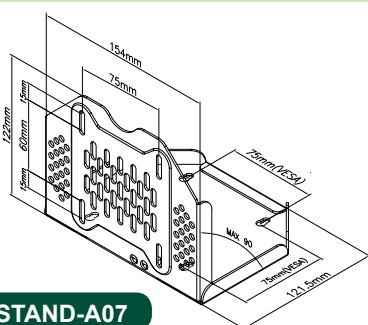
VESA	Model
75 x 75mm	VSTAND-A07
75 x 75mm / 100 x 100mm	VSTAND-A10
	VSTAND-A12



### Space saving and easy installation



Compact size provides mobility



## Ordering Information

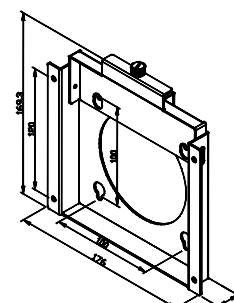
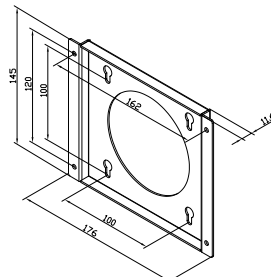
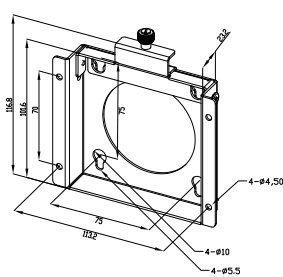
Part No.	Description
VSTAND-A07	LCD monitor / PPC stand V type, for AFL series, VESA 75, 0~90 degree adjustable hinge, support up to 2.5 kg, RoHS
VSTAND-A10	LCD monitor / PPC stand V type, for AFL series, VESA 75/100, 0~90 degree adjustable hinge, support up to 3 kg, RoHS
VSTAND-A12	LCD monitor / PPC stand V type, for AFL series, VESA 75/100, 0~90 degree adjustable hinge, support up to 3.5 kg, RoHS

## Wall Mounting

### VESA 75/100 Wall Mounting

Secure the panel by fastening the retention screw of the bracket.

VESA	Model
75 x 75mm	AFLWK-12
100 x 100mm	AFLWK-19
	AFLWK-19B



## Ordering Information

Part No.	Description
AFLWK-12	5.6"~12" VESA 75 x 75mm PPC/monitor wall mount kit with retention screw, silver color, RoHS
AFLWK-19	15"~19" VESA 100 x 100mm PPC/monitor wall mount kit, silver color, RoHS
AFLWK-19B	15"~19" VESA 100 x 100mm PPC/monitor wall mount kit with retention screw, silver color, RoHS

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